



Cloud Computing

LAB 2 & 3

SUBMITTED BY :TANZEELA

ASGHAR

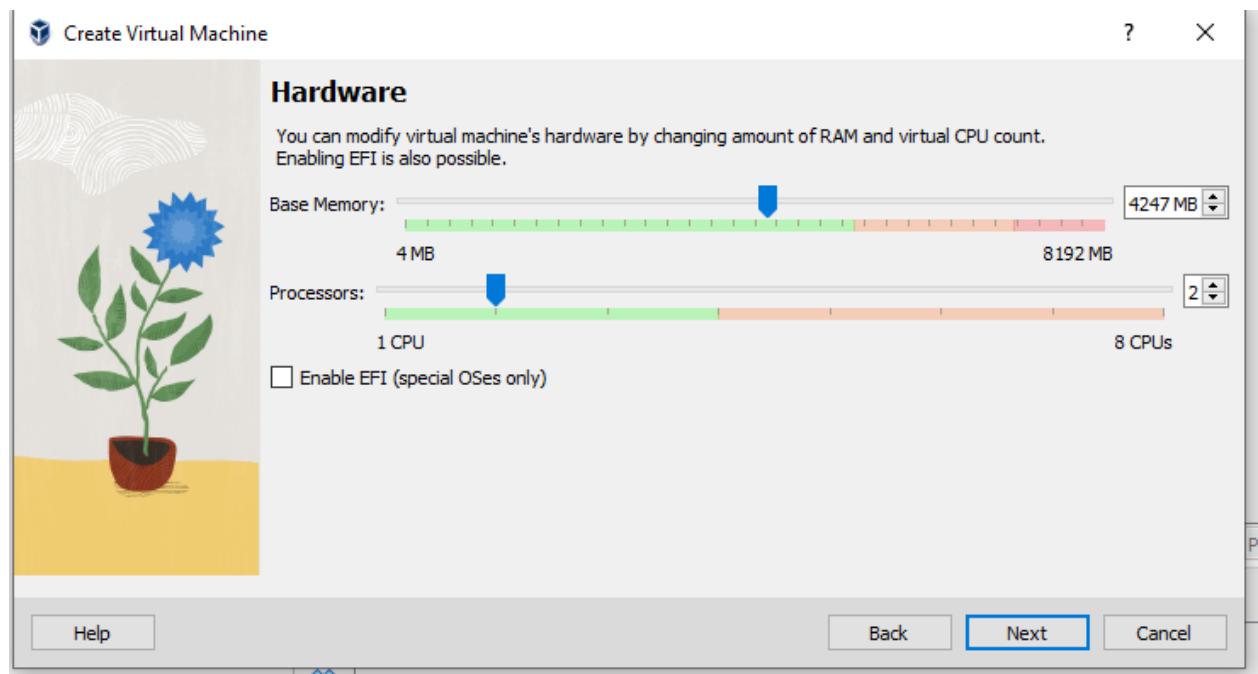
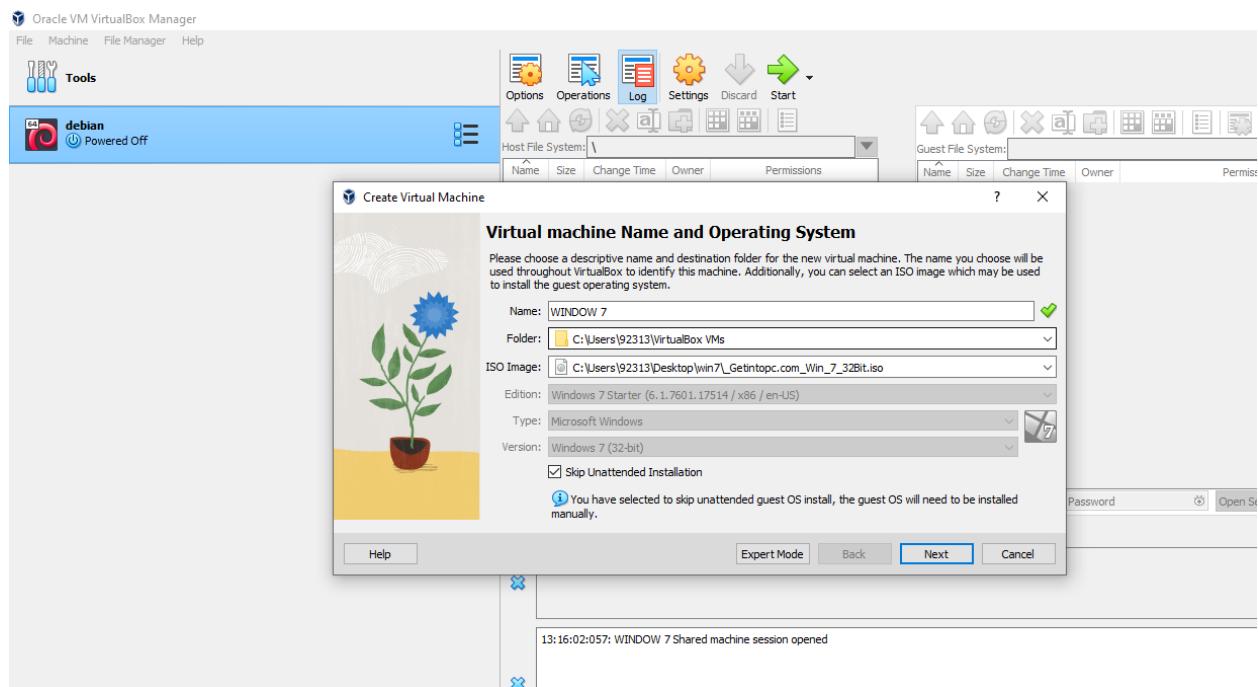
SUBMITTED TO :SIR MUHAMMAD

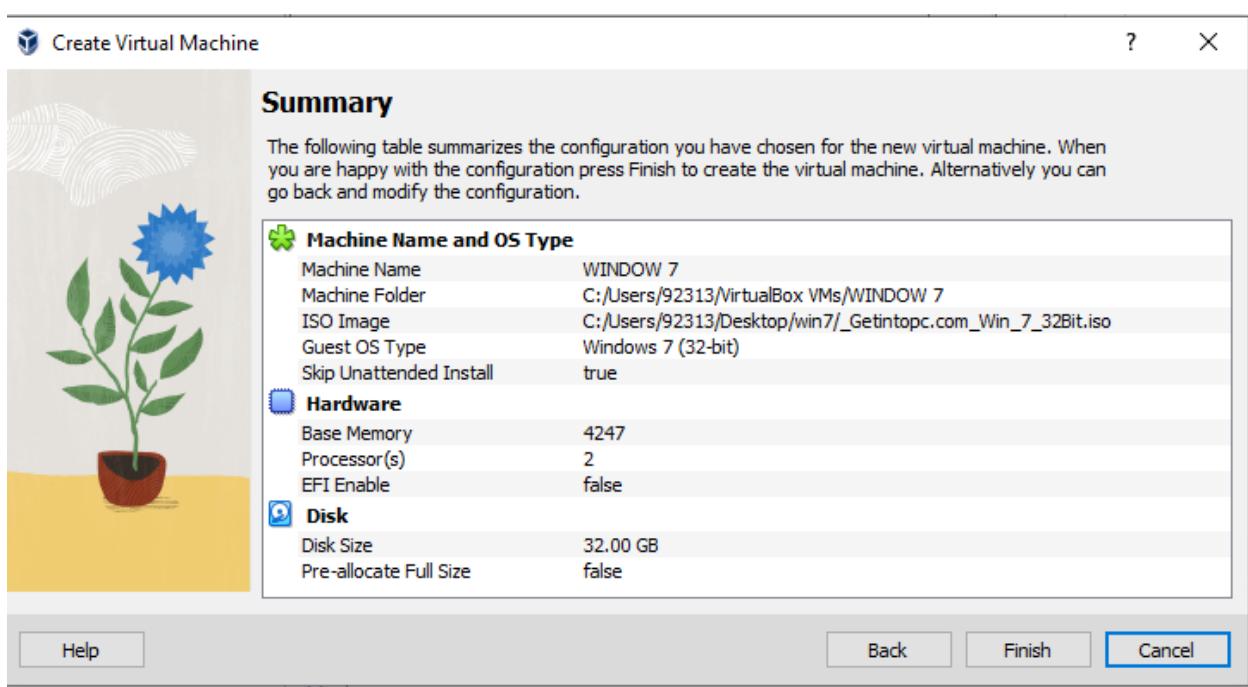
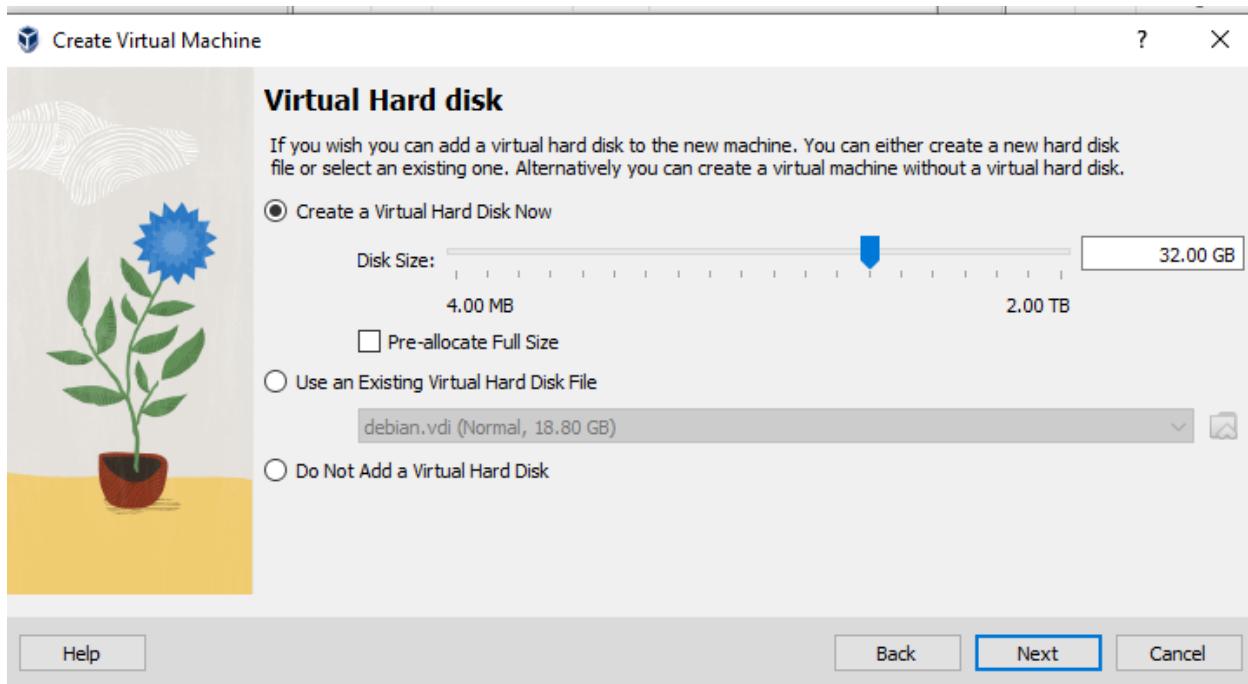
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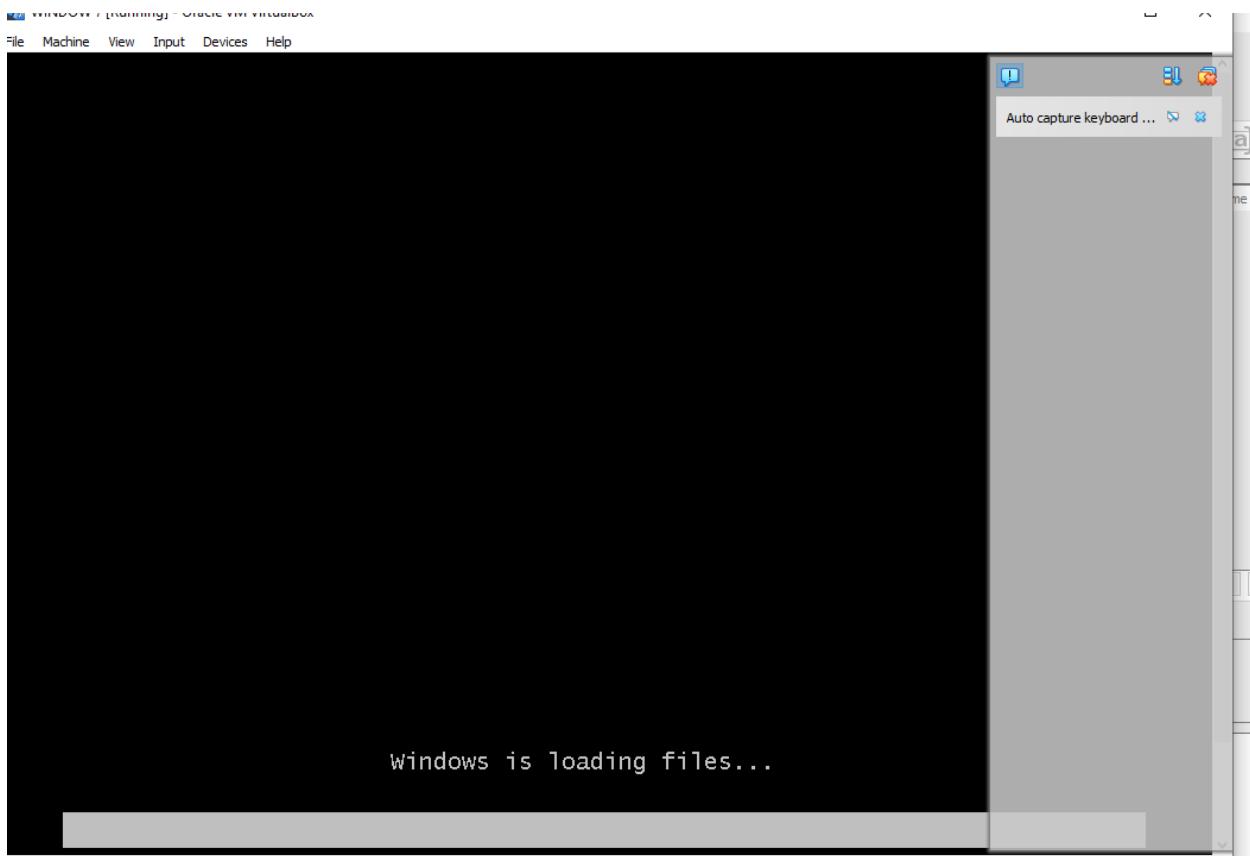
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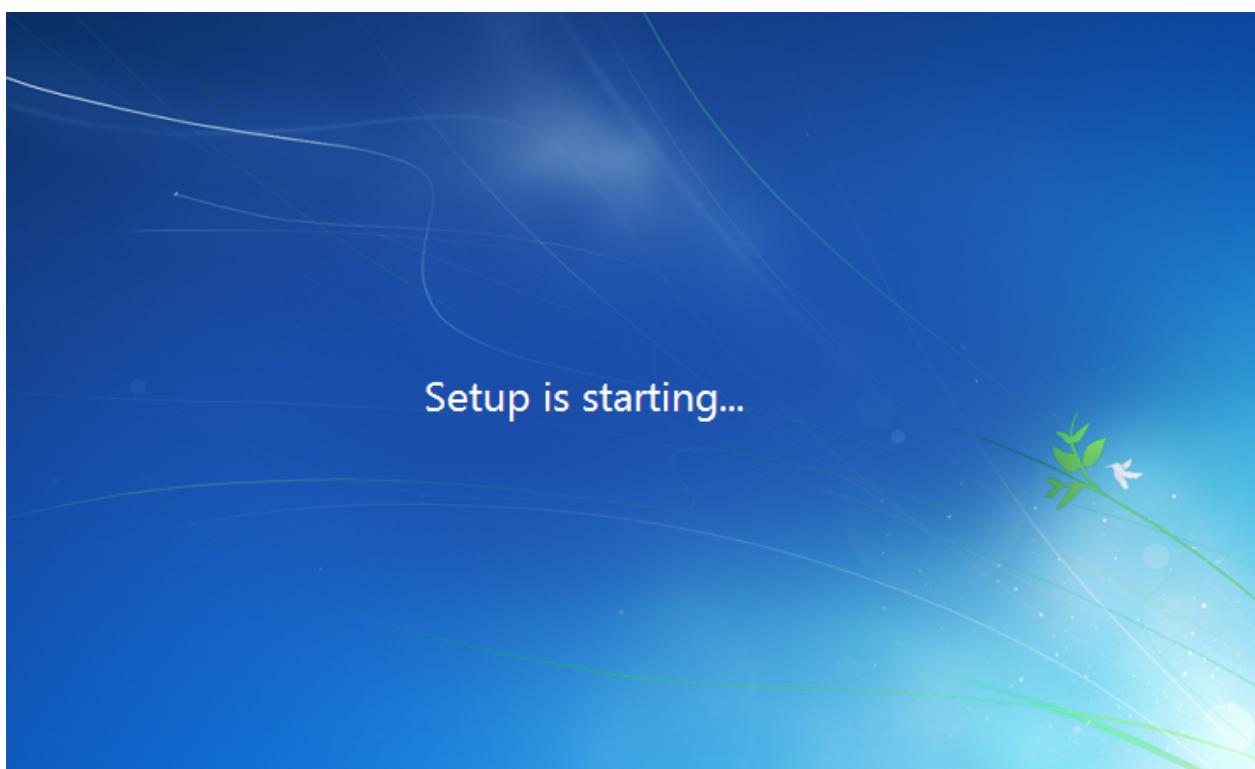
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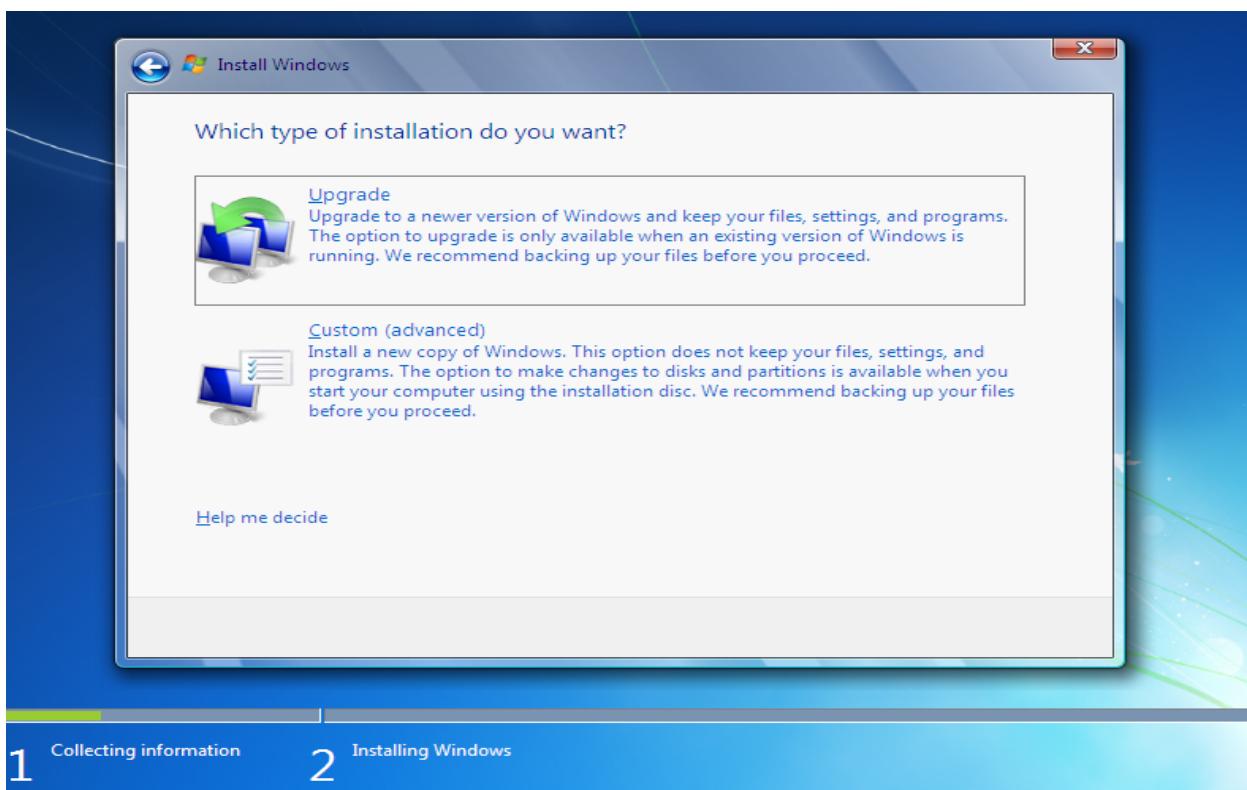
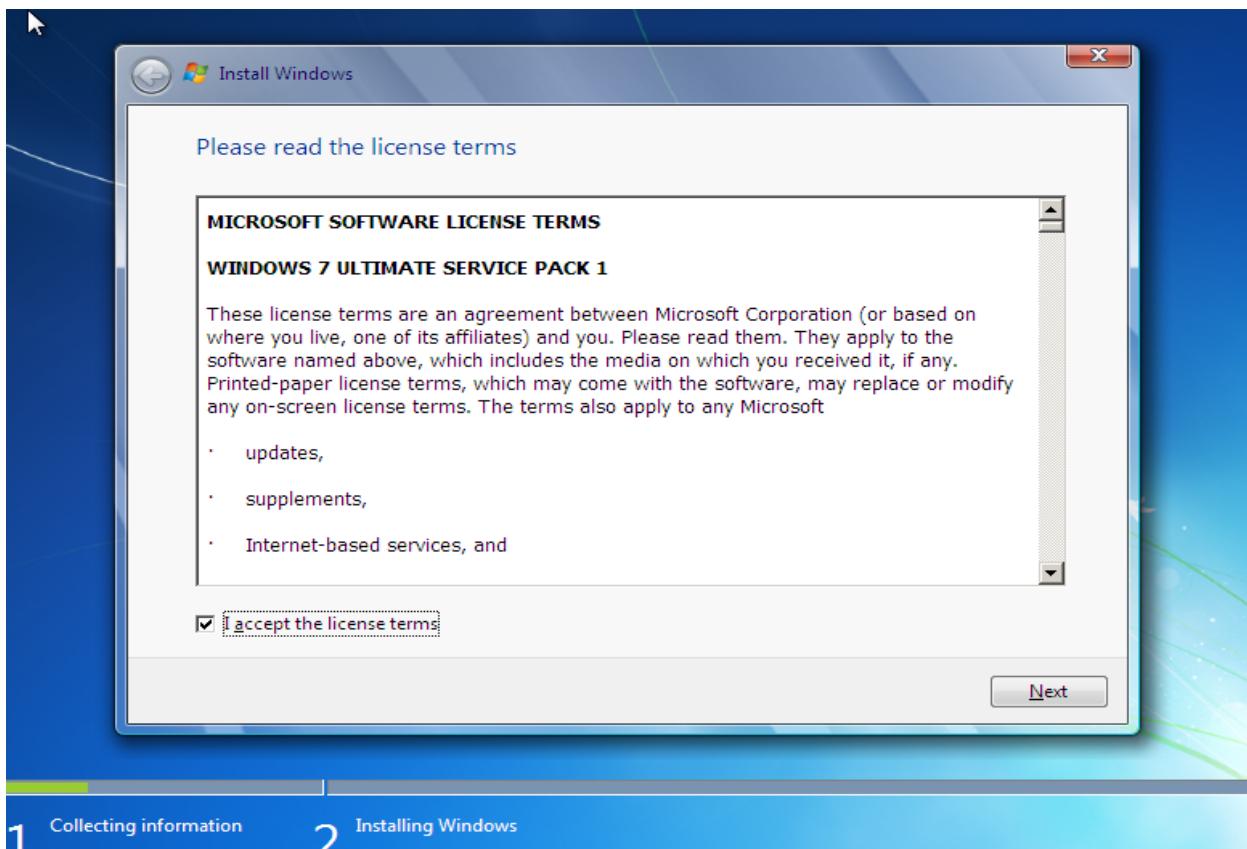
"Lab 2"

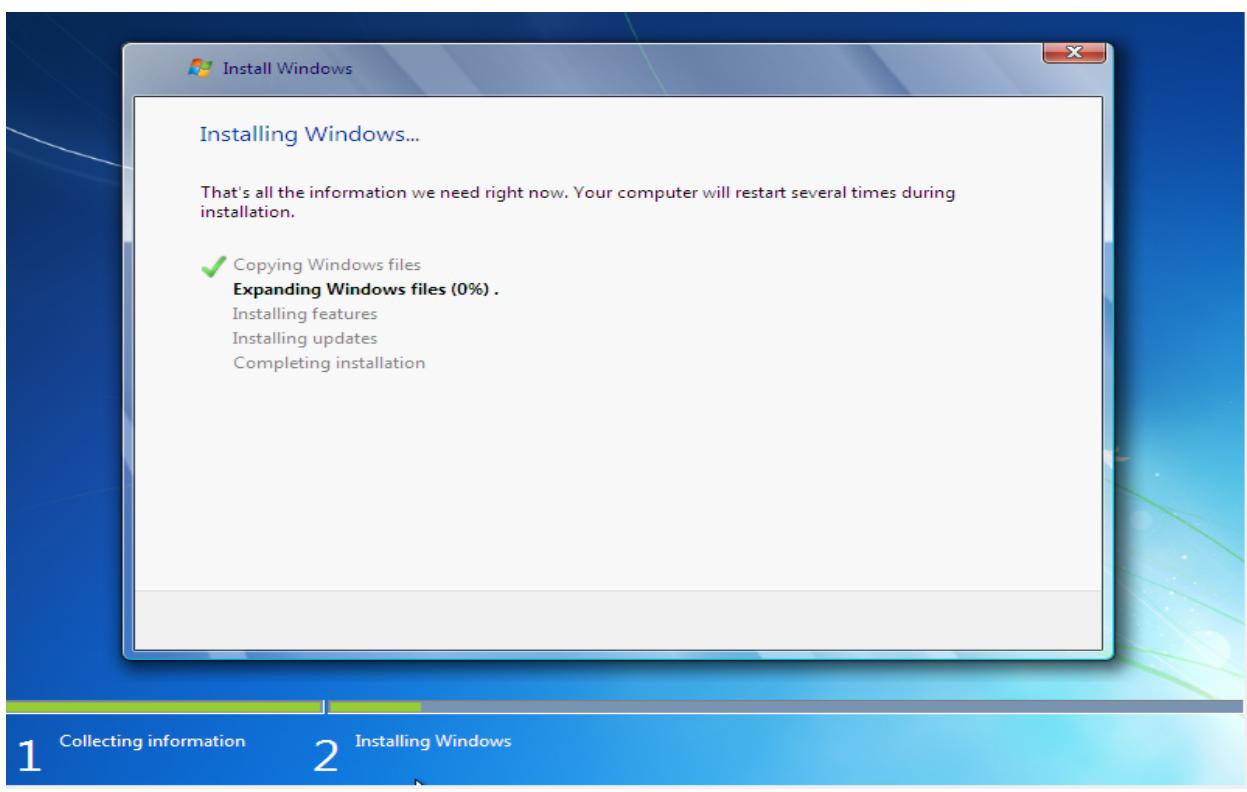
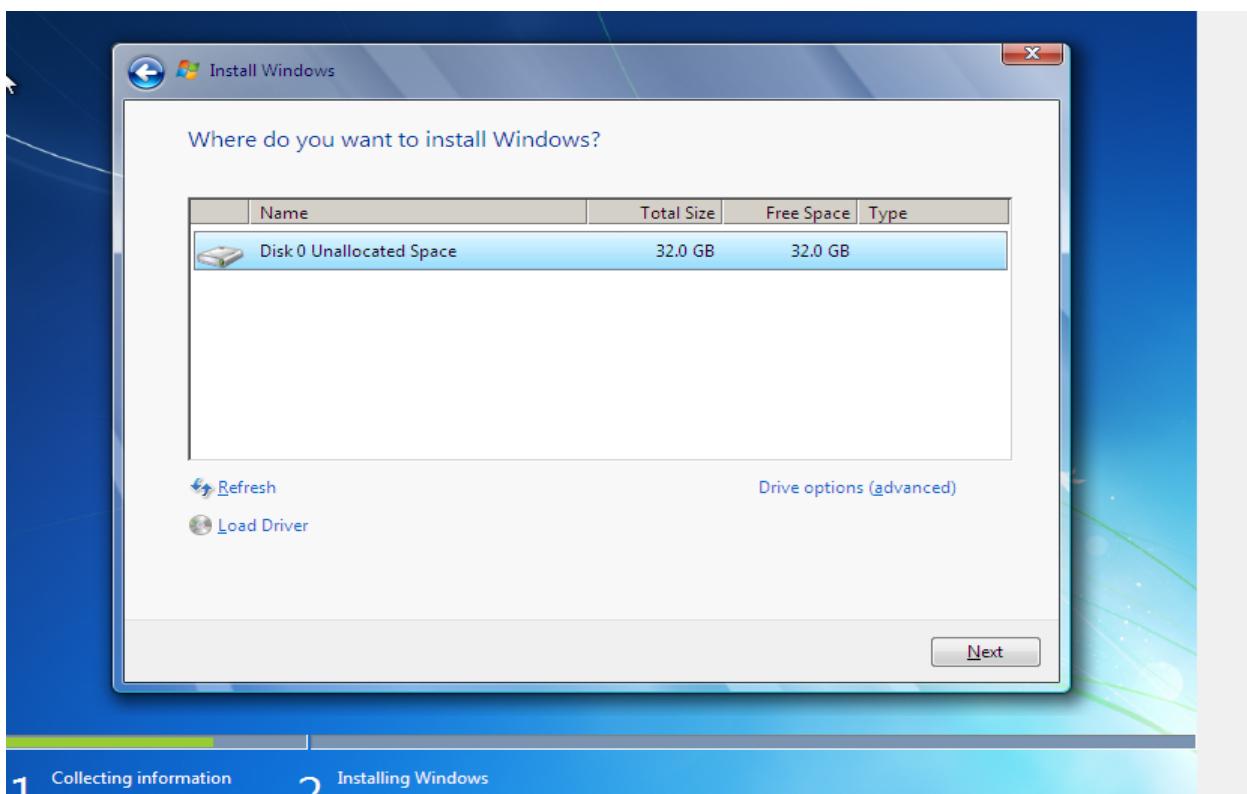


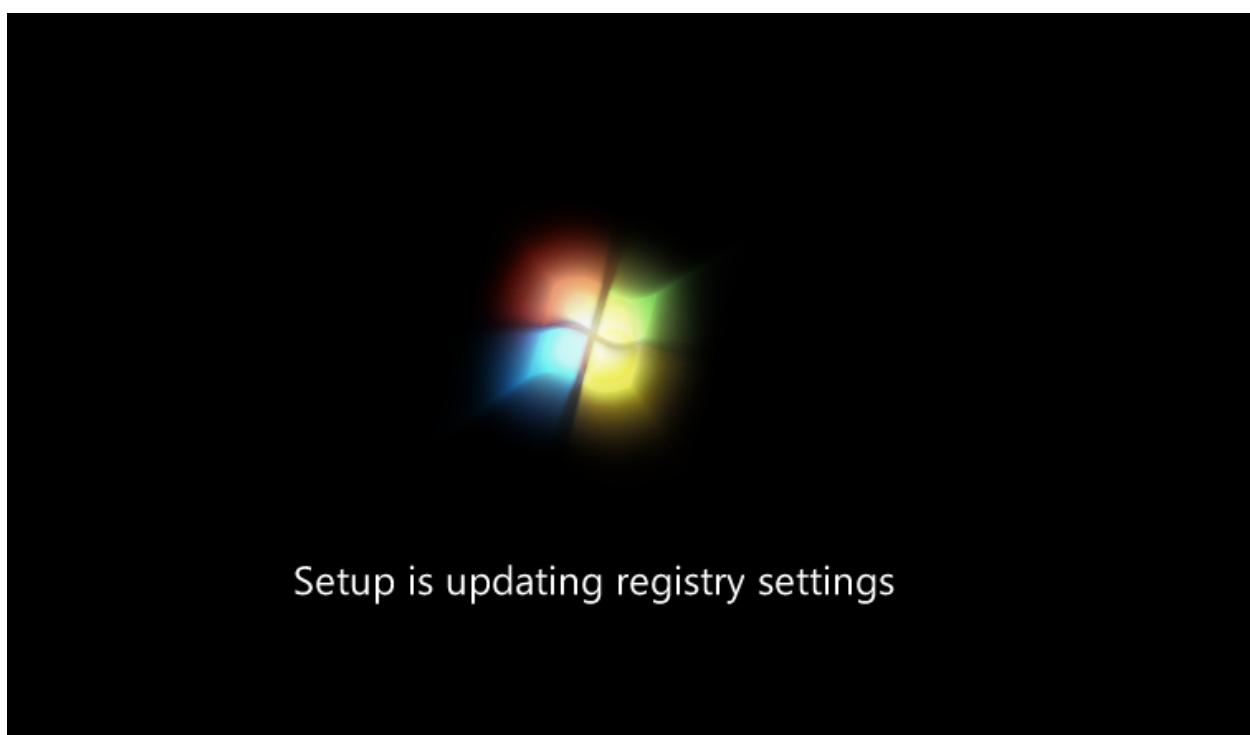
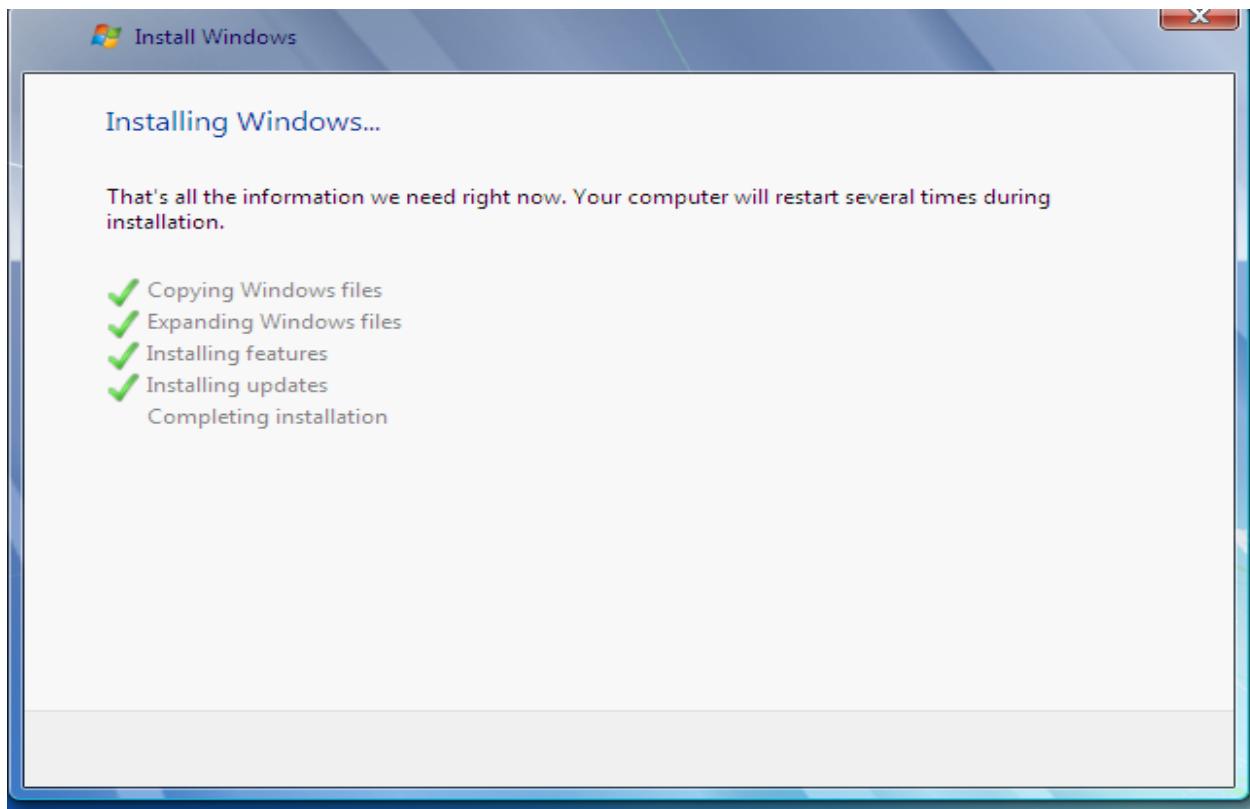


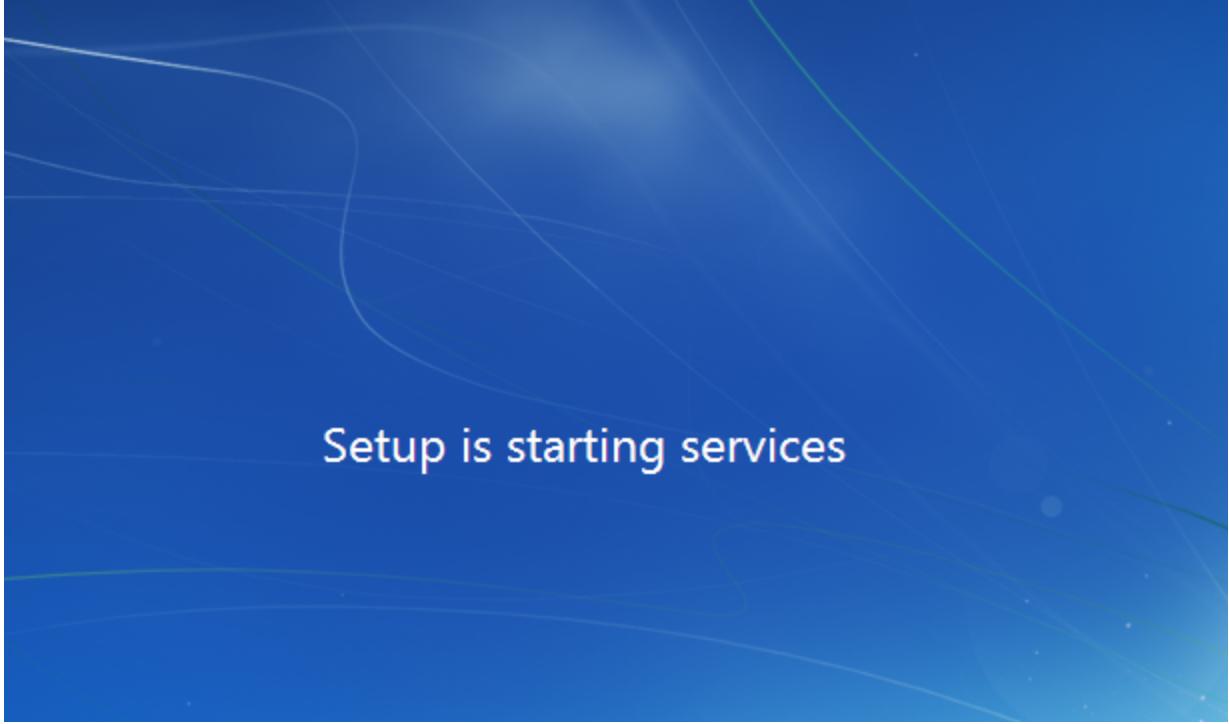




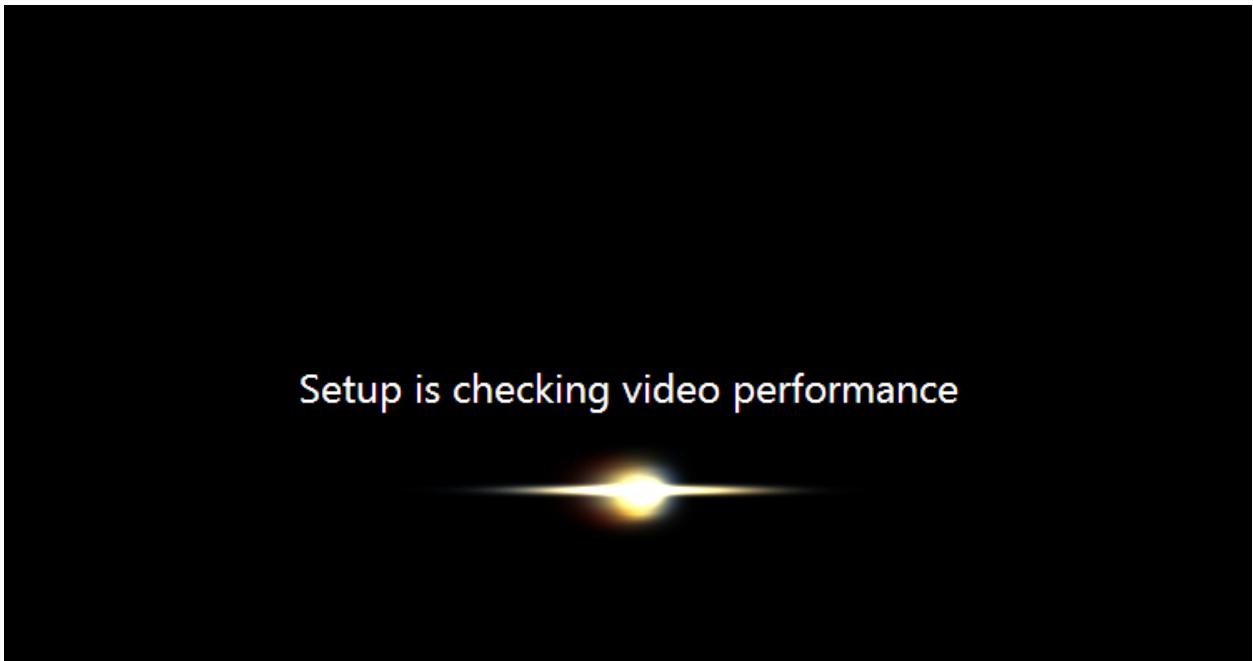




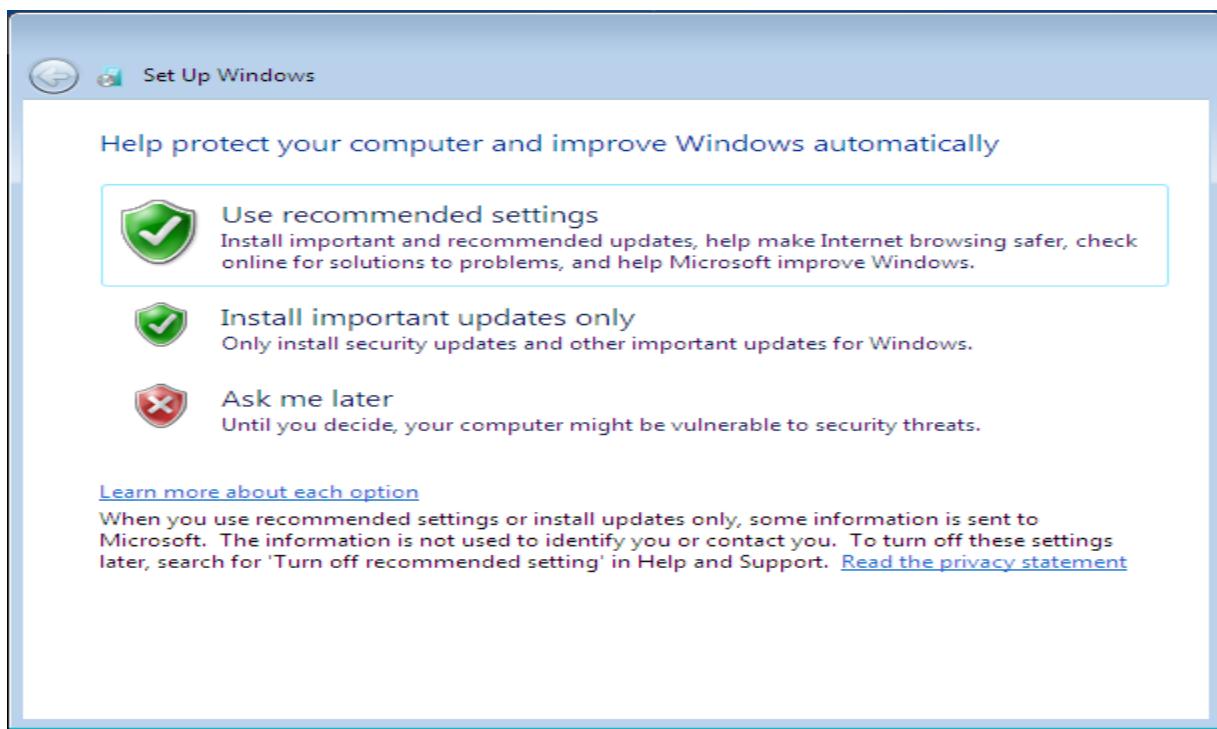
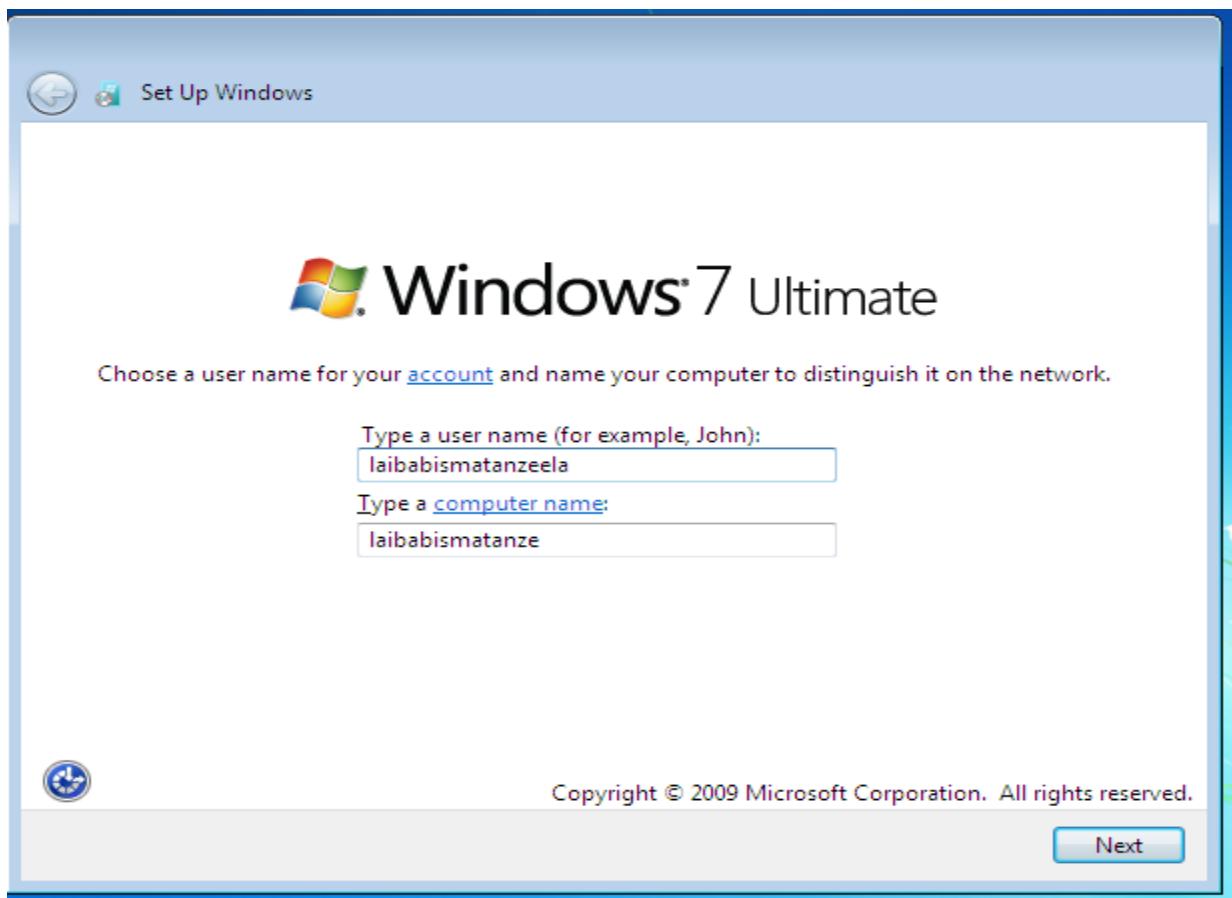


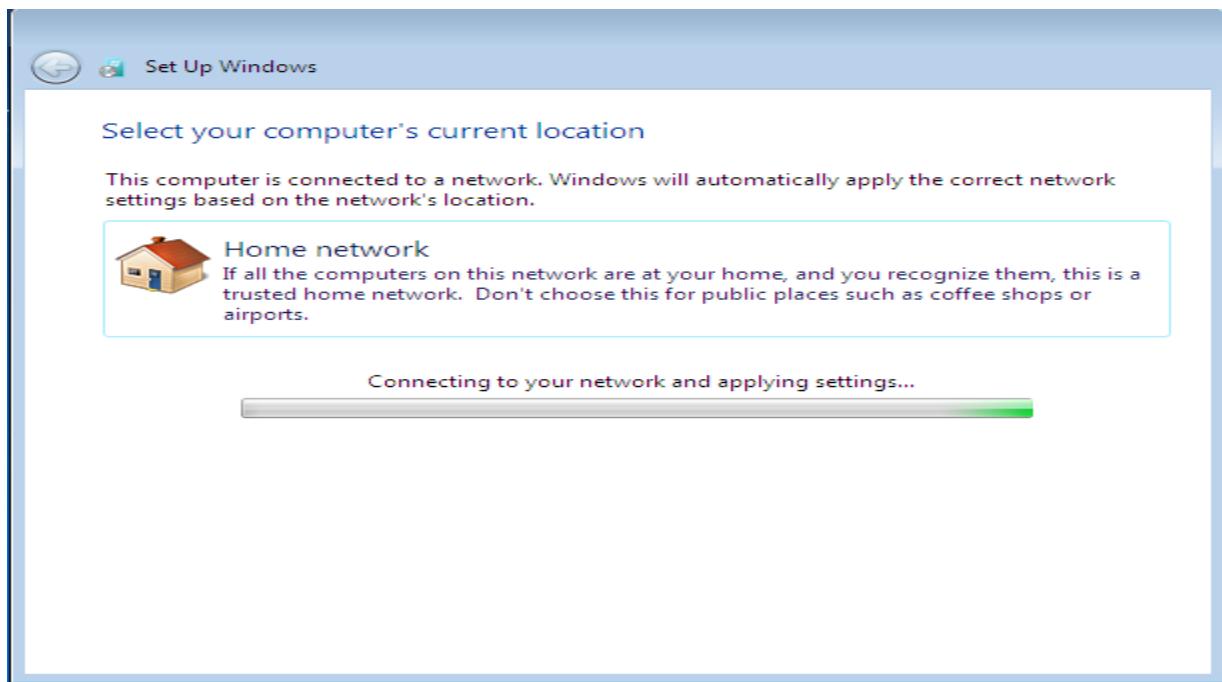
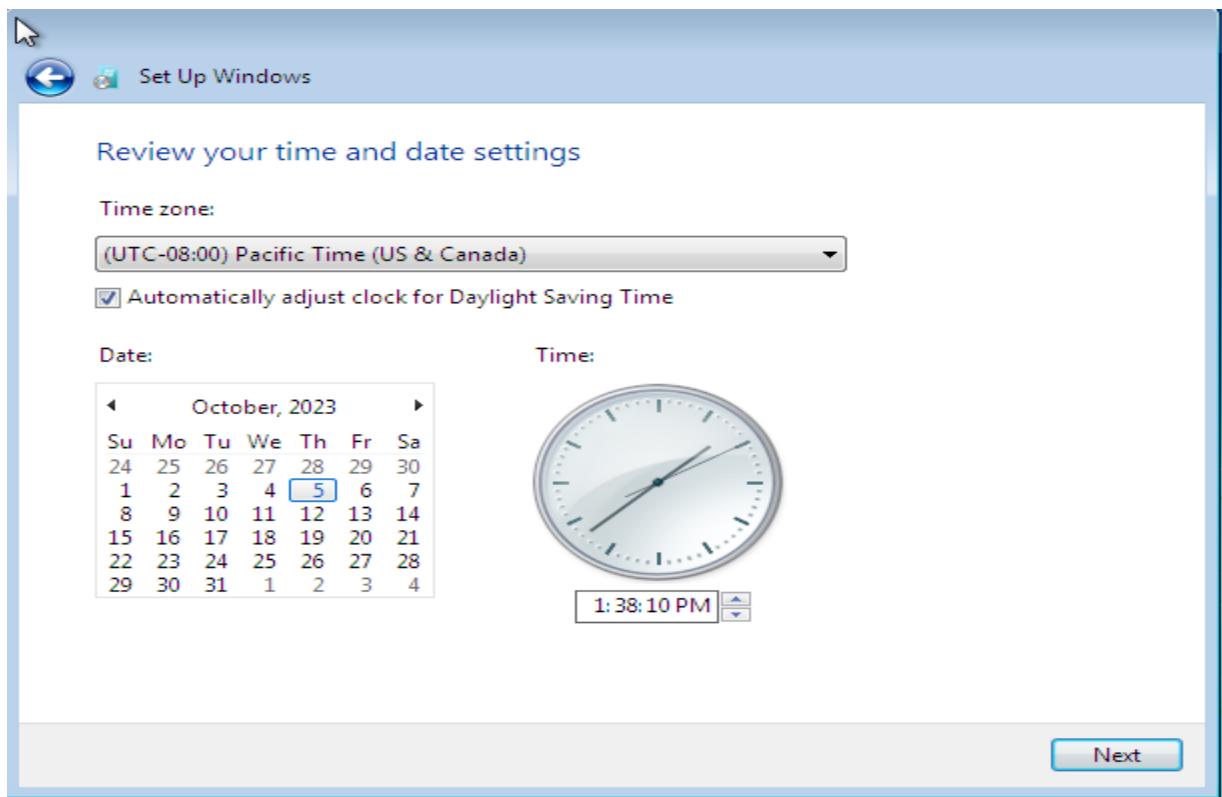


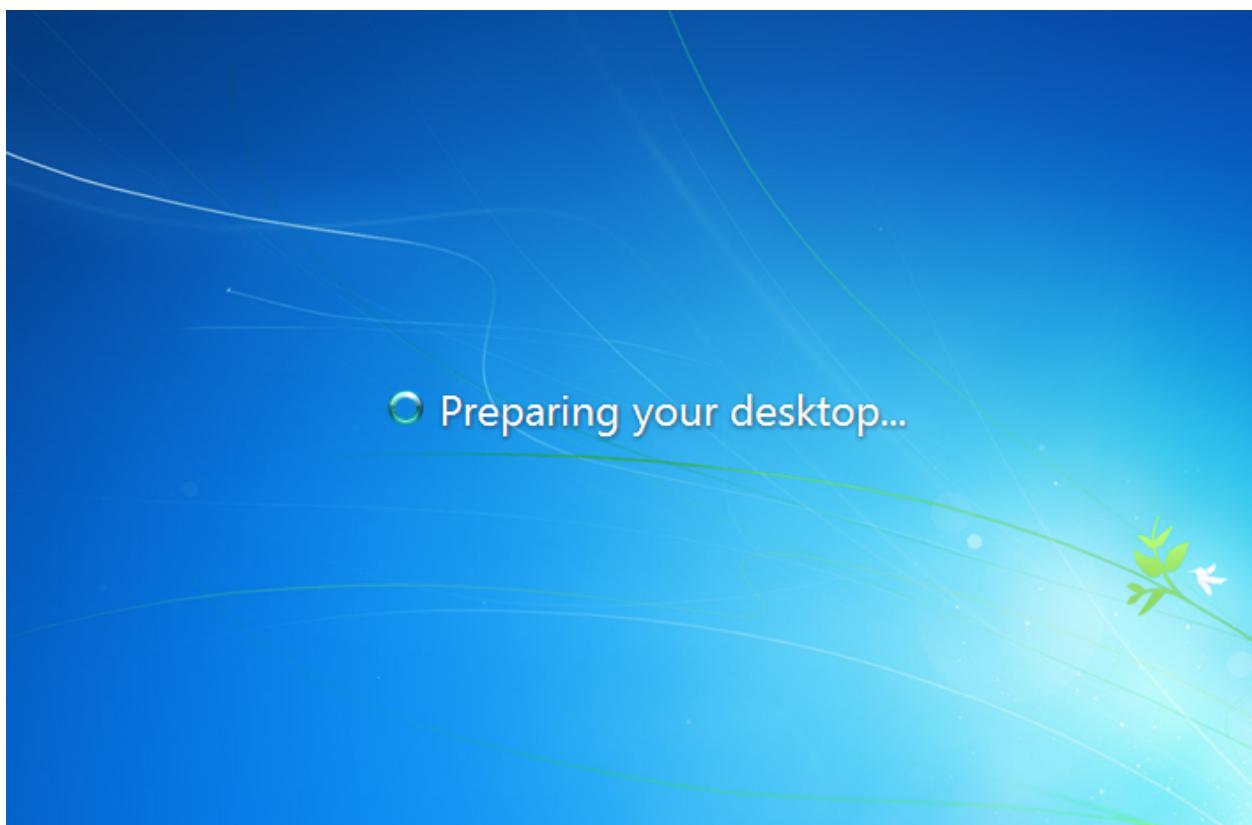
Setup is starting services

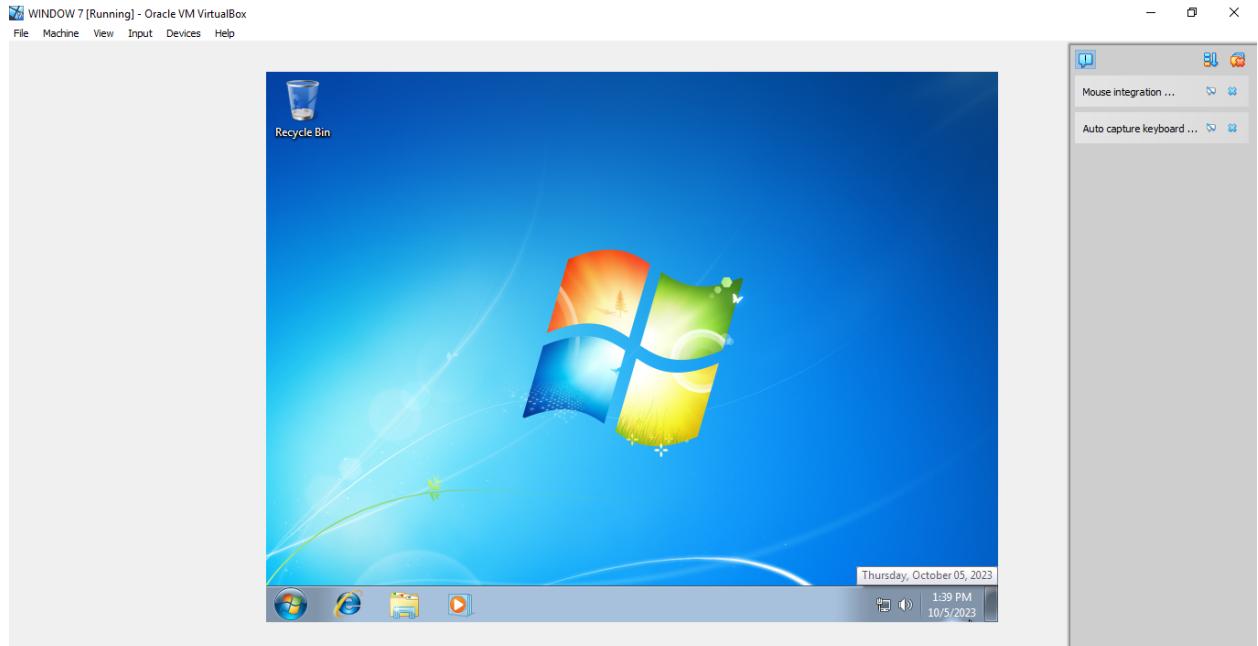


Setup is checking video performance









"Lab 3"

LAB TASKS:

Write a c program in virtual machine and execute it

GCC INSTALLATION:

Activities Terminal Oct 5 02:30

```
laibatanzela@laibatanzela:~
```

```
laibatanzela@laibatanzela:~$ sudo apt update
[sudo] password for laibatanzela:
Get:1 http://security.debian.org/debian-security bookworm-security InRelease [48.0 kB]
Hit:2 http://deb.debian.org/debian bookworm InRelease
Hit:3 http://deb.debian.org/debian bookworm-updates InRelease
Get:4 http://security.debian.org/debian-security bookworm-security/main Sources [45.5 kB]
Get:5 http://security.debian.org/debian-security bookworm-security/main amd64 Packages [74.9 kB]
Get:6 http://security.debian.org/debian-security bookworm-security/main Translation-en [42.1 kB]
Fetched 211 kB in 2s (123 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
6 packages can be upgraded. Run 'apt list --upgradable' to see them.
laibatanzela@laibatanzela:~$
```

```
After this operation, 229 MB of additional disk space will be used.
Do you want to continue? [Y/n] t
Abort.
laibatanzela@laibatanzela:~$ sudo apt-get install build-essential
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  binutils binutils-common binutils-x86_64-linux-gnu dpkg-dev fakeroot g++ g++-12 gcc
    gcc-12 libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl
    libasan8 libbinutils libc-bin libc-dev-bin libc-devtools libc-l10n libc6 libc6-dev
    libcc1-0 libcrypt-dev libctf-nobfd0 libctf0 libdpkg-perl libfakeroot
    libfile-fcntllock-perl libgcc-12-dev libgprofng0 libitm1 liblsan0 libnsl-dev
    libstdc++-12-dev libtirpc-dev libtsan2 libubsan1 linux-libc-dev locales make
    manpages-dev patch rpcsvc-proto
Suggested packages:
  binutils-doc debian-keyring g++-multilib g++-12-multilib gcc-12-doc gcc-multilib
  autoconf automake libtool flex bison gdb gcc-doc gcc-12-multilib gcc-12-locales
```

PROGRAM EXECUTION:



A screenshot of a Linux desktop environment showing a text editor window titled "Text Editor". The window title bar also displays "Activities" and the date/time "Oct 5 02:39". The main area of the window shows a C program named "HW.c" located at "~/Desktop". The code is as follows:

```
#include <stdio.h>
int main()
{
printf("hello,world");
return 0;
}
```

OUTPUT:

```
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
laibatanzela@laibatanzela:~$ gcc HW.c -o HW
laibatanzela@laibatanzela:~$ ./HW
hello,worldlaibatanzela@laibatanzela:~$
```